

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 91-131

UPDATING WATER RECLAMATION REQUIREMENTS FOR:

EAST BAY DISCHARGERS AUTHORITY
ORO LOMA SANITARY DISTRICT, AND
HAYWARD AREA RECREATION AND PARK DISTRICT
SKYWEST GOLF COURSE
HAYWARD, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter Board, finds that:

1. On June 17, 1981, the Regional Board adopted water reclamation requirements for Skywest Golf Course in Order No. 81-37. The Order named East Bay Dischargers Authority (EBDA), Oro Loma Sanitary District (OLSD), and Hayward Area Recreation and Park District (HARD) as dischargers.
2. The dischargers divert up to 0.8 million gallons per day (mgd) of secondary treated effluent from the OLSD treatment facility to irrigate the Skywest Golf Course. OLSD pumps its treated effluent to two of four on-site ponds at the golf course, where the reclaimed wastewater is distributed via fixed and portable sprinklers for night time irrigation. The remaining two ponds contain reclaimed water and rain water for use in case of an emergency.
3. Skywest uses reclaimed water for all the golf course except the fairways immediately adjacent to the town house development on the northeast side of the course. The location of the golf course is shown in Attachment "A" which is hereby made a part of this Order.
4. Section 13523 of the California Water Code provides that a Regional Board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in paragraph 2, could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The water reclamation requirements in this Order are in conformance with the wastewater reclamation criteria established by the State Department of Health at 22 CCR 60301

et. seq.

6. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986. The Basin Plan identifies the beneficial uses of the underlying ground waters as:

Industrial process supply
Industrial service supply
Municipal supply
Agricultural supply

7. The update of water reclamation requirements is exempt from the provisions of chapter 3 (commencing with section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to 14 CCR 15304.
8. The dischargers and interested agencies and persons have been notified of the Board's intent to update water reclamation requirements for the proposed use.
9. The Board, in a public meeting, heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the dischargers, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. No reclaimed water shall be applied to the golf course greens and fairways nos. 8, 9, 11, 12 nor greens 5 or 14 when the wind is from the southerly direction at a sustained speed (approx. 4 knots for 5 minutes).
2. The treatment, re-use, or distribution of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
3. No reclaimed water used for irrigation shall be allowed to escape areas outside the golf course by surface flow or airborne spray, except for minor quantities of surface flow occurring as a result of normal irrigation practice.
4. Reclaimed water shall not be applied to the golf course in such a manner or at such times as to expose golfers or other individuals to contact with spray droplets.
5. Discharge of reclaimed water from the holding ponds, other than to the irrigation system or to a municipal sewerage system, is prohibited.

6. No reclaimed water used for irrigation shall be applied closer than fifty (50) feet from unprotected picnic tables, and other food and drinking water outlets, or thirty-five (35) feet from adjacent property boundaries with residential or parkland uses.
7. No reclaimed water shall be applied to the fairway or green adjacent to the Skywest townhouses (fairway/green no. 13).
8. No reclaimed water shall be applied to the irrigation site during rainfall, or when soils are saturated to a point where runoff is likely to occur.

B. Reclaimed Water Use Specifications

1. The reclaimed water shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits prior to being applied to the golf course:

5-day BOD	40.0 mg/l, maximum
Dissolved Oxygen	1.0 mg/l, minimum
Dissolved Sulfide	0.1 mg/l, maximum
2. The median Most Probable Number (MPN) shall not exceed 23 coliform organisms per 100 milliliters of sample or 240 MPN/100 ml for any two consecutive samples at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven analyses.
3. All above ground equipment, including pumps, piping and valves, etc., which may at any time contain waste shall be adequately and clearly identified and clearly identified with warning signs informing the public that the facilities contain sewage which is unfit for human consumption.
4. Irrigation of the golf course shall occur at night or early morning when the wind velocity is minimal and the golfers are absent.
5. Skywest Golf Course shall provide adequate means of notification to inform the public that reclaimed water is being used for irrigation. Conspicuous warning signs of sufficient size with proper wording to be clearly read shall be posted at adequate intervals around the irrigation site. Notice shall be printed on the score cards stating that reclaimed water is being used.
6. As of October 1, 1992, a minimum freeboard of at least one foot shall be maintained in all storage ponds

containing reclaimed water.

C. Provisions

1. This Order supersedes Order No. 81-37, which is hereby rescinded.
2. The dischargers shall comply with all sections of this Order immediately upon adoption, except for specification B.6.
3. This Board considers EBDA to be the agency primarily responsible for compliance with these water reclamation requirements. Therefore, in the administration and enforcement of this Order, this Board will first pursue its administrative and/or legal remedies with EBDA. If, however, the Board finds that EBDA does not have the ability or willingness to take appropriate action, or if special, unusual circumstances arise that indicate that direct action should be taken against the remaining dischargers, this Board may pursue appropriate action against OLSD, HARD or Skywest Golf Course.
4. The dischargers shall permit the Regional Board or its authorized representative:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or method required by this Order.
 - d. Sampling of any discharge or reclaimed water.
5. The dischargers shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
6. The dischargers shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed or as modified to achieve compliance with this Order.
7. In the event of any change in control or ownership of land or water reclamation facilities presently owned or controlled by the dischargers, the dischargers shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

8. The dischargers shall file with the Board a report on waste discharge at least 180 days before making any material change in the character, location, or volume of the reuse, except for emergency conditions in which case the Board shall be notified.

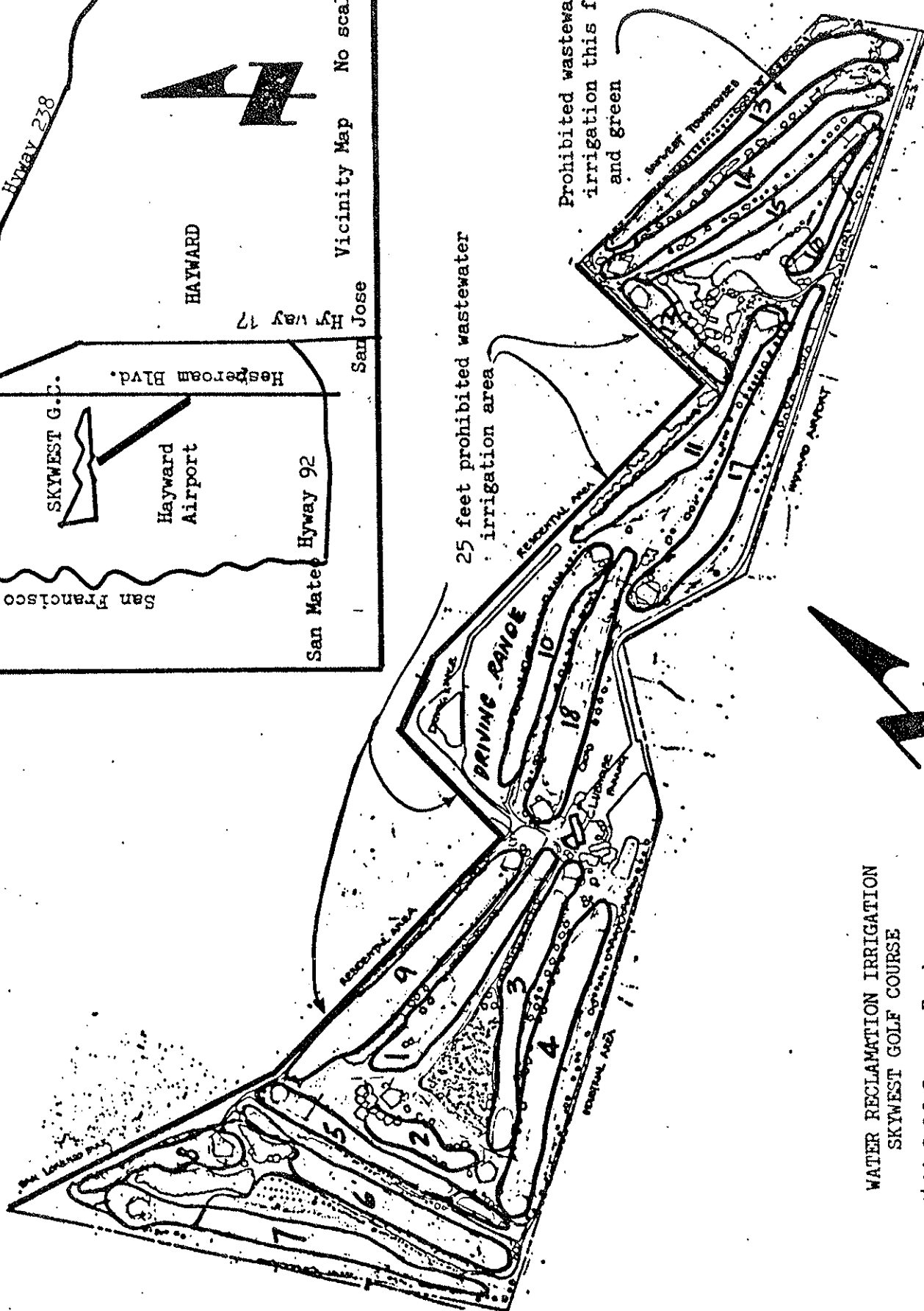
I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Board, San Francisco Bay Region on September 18, 1991.



STEVEN R. RITCHIE
Executive Officer

Attachments:

Map
Self-Monitoring Program



1401 Golf Course Road
Hayward Area Recreation District

Attachment A

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

SKYWEST GOLF COURSE
HAYWARD, ALAMEDA COUNTY

ORDER NO. 91-131

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16. The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board; and
2. To facilitate self-policing of the waste discharger in the prevention and abatement of pollution arising from waste discharge.

B. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

EFFLUENT

Station

Description

E-001

At any point in the treatment process from the reclamation facilities between the first point of reuse or storage and the point at which all waste tributary to that outfall is present.

LAND OBSERVATIONS

Station

Description

P-1
thru
P-'n'

Located along the periphery of the irrigation areas at equidistant intervals not to exceed 500 feet.

IMPOUNDMENT FACILITIES

Station

Description

R-1, R-2,
R-3,R-4

At some point on the periphery of the pond containing reclaimed water.

(A sketch showing the locations of these stations shall accompany each report).

GROUND WATERS

Station

Description

G1	East of Skywest Golf Course at Kennedy Park.
G2	Extreme western boundary of Skywest Golf Course to monitor ground water quality under the golf course.
G3	Existing on-site deep well.

2. Schedule of Sampling and Analyses

- a. The schedule of sampling and analyses shall be that given as Table I.
- b. Skywest Golf Course shall inspect weekly for the following:
 - (1) Presence of odors as a result of spray application of wastewater, noting the presence or absence, character, source, and distance and direction of travel.
 - (2) Evidence of any ponded water outside the property due to spray application and runoff of reclaimed wastewater.

Inspection stations, not more than 500 feet apart, shall be established along the perimeter of each irrigation area. Observations shall be reported for each station and all violations will be located on a sketch. The sketch will accompany every report and show the irrigation areas and inspection stations.

B. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. In the event the dischargers are unable to comply with the conditions of the waste discharge requirements and prohibitions for any reason, the dischargers shall notify the Regional Board and the County Health Department office by telephone as soon as he or his agents have knowledge of the incident.
2. The dischargers shall confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem

from recurring.

3. Regular monthly self-monitoring reports shall be sent to the Regional Board by the fifteenth of the following month. The attached monitoring summary report form shall be used and submitted to both the Regional Board and County Health Department.

C. MISCELLANEOUS REPORTING

The dischargers shall submit with the first required monitoring report, adequate documentation that all equipment is adequately marked as required. Such documentation shall include, but not be limited to photographs and certification of compliance.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 91-131.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.


STEVEN R. RITCHIE
Executive Officer

Effective Date 09/18/91

Attachments:
Table 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001 (2)	All P (1) Stations	All R Stations	All G Stations
TYPE OF SAMPLE	Grab	C-24	Observation	Grab
Flow Rate (mgd)	D			
BOD, 5-day, 20° C, or COD (mg/l & kg/day)		W		(3) 2/Y
Chlorine Residual & Dosage (mg/l & kg/day)	D			
Settleable Matter (ml/1-hr. & cu. ft./day)	2/M			
Total Suspended Matter (mg/l & kg/day)		2/M		
Oil & Grease (mg/l & kg/day)		2/M		
Coliform (Total) (MPN/100 ml) per req't	(4) D			
Fish Toxicity, 96-hr. TL ₅₀ % Survival in undiluted waste				
Ammonia Nitrogen (mg/l & kg/day)				
Nitrate Nitrogen (mg/l & kg/day)				2/Y
Nitrite Nitrogen (mg/l & kg/day)				
Total Organic Nitrogen (mg/l & kg/day)				
Total Phosphate (mg/l & kg/day)				
Turbidity (Jackson Turbidity Units)				
pH (units)	2/M			2/Y
Dissolved Oxygen (mg/l and % Saturation)	W		W	
Temperature (°C)				
Apparent Color (color units)				
Secchi Disc (inches)				
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)	W		W	
Chromium, Total (mg/l & kg/day)				
Copper (mg/l & kg/day)				
Cyanide (mg/l & kg/day)				
Silver (mg/l & kg/day)				
Lead (mg/l & kg/day)				

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001 (2)		All P (1) Stations	All R Stations	All G Stations						
TYPE OF SAMPLE	Grab	C-24	Observation	Grab	Grab						
Mercury (mg/l & kg/day)											
Nickel (mg/l & kg/day)											
Zinc (mg/l & kg/day)											
PHENOLIC COMPOUNDS (mg/l & kg/day)											
All Applicable Standard Observations			W	W	2/Y						
Bottom Sediment Analyses and Observations											
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)											
Total Dissolved Solids (mg/l)					2/Y						

LEGEND FOR TABLE

TYPES OF SAMPLES

- G = grab sample
- C-24 = composite sample - 24-hour
- C-X = composite sample - X hours
(used when discharge does not
continue for 24-hour period)
- Cont = continuous sampling
- DI = depth-integrated sample
- BS = bottom sediment sample
- O = observation

TYPES OF STATIONS

- I = intake and/or water supply stations
- A = treatment facility influent stations
- E = waste effluent stations
- C = receiving water stations
- P = treatment facilities perimeter stations
- L = basin and/or pond levee stations
- B = bottom sediment stations
- G = groundwater stations

FREQUENCY OF SAMPLING

- E = each occurrence
- H = once each hour
- D = once each day
- W = once each week
- M = once each month
- Y = once each year

- 2/H = twice per hour
- 2/W = 2 days per week
- 5/W = 5 days per week
- 2/M = 2 days per month
- 2/Y = once in March and
once in September
- Q = quarterly, once in
March, June, Sept.
and December

- 2H = every 2 hours
- 2D = every 2 days
- 2W = every 2 weeks
- 3M = every 3 months
- Cont = continuous

- (1) Observations shall include evidence of seepage outside irrigation area.
- (2) Effluent samples are required to be taken only on days any reclaimed wastewater is being diverted for reuse from Oro Loma or EBDA facilities.
- (3) COD only for G stations.
- (4) Seven consecutive samples shall be taken every other week.